

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	514/12.ccls. and "systemic lupus erythrematosus"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:14
L2	0	514/12.ccls. and "systemic lupus erythrematosus" SAME peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:14
L3	5	514/12.ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:33
L4	2	"20050008634".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:32
L5	0	514/13.ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:33
L7	0	"530/326".ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:34
L8	0	530/326.ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:38
L9	0	424/1.69.ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:38
L10	1	424/131.1.ccls. and "systemic lupus erythrematosus" and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:52
L13	1	"200267848".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 20:43
L14	2	"20040127408".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 20:44

## EAST Search History

S1	4	"systemic lupus erythrematosus". clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/10/01 19:14
S2	0	"systemic lupus erythrematosus". clm. and peptide.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:03
S3	1	"systemic lupus erythrematosus". clm. and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:05
S4	6	"systemic lupus erythrematosus" and peptide.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:05
S5	0	"systemic lupus erythrematosus".ti. and peptide.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:05
S6	0	"systemic lupus erythrematosus".ti. and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:05
S7	1	"systemic lupus erythrematosus". ab. and peptide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/09/07 11:05
S8	2	"FSGYYWS"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:04
S9	2	"FSGYYWS" and lupus	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:04
S10	2	"FSGYYWS" and lupus and carrier	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:04
S11	1	"FSGYYWS" and lupus and carrier and PEG	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:04
S12	1	"FSGYYWS" and lupus and carrier and glycol	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:05

## EAST Search History

S13	1	"FSGYYWS" and lupus and carrier and acetamide	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/10/11 12:05
S14	1	"FSGYYWS" and lupus and carrier and (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or ester or cyclodextrin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 12:09
S15	10192	peptide and lupus and carrier and (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or ester or cyclodextrin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 12:09
S16	7	lupus.ab. and peptide SAME carrier SAME (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or ester or cyclodextrin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 12:11
S17	28	lupus.ab. and peptide SAME (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or cyclodextrin) and carrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 13:23
S21	2	"9630057".did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 12:16
S22	1	"6613536".did. and lupus.ab. and peptide SAME (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or cyclodextrin) and carrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 13:24
S23	1	"6613536".did. and lupus.ab. and peptide SAME (PEG or demethyl or glycol or castor or methyl or pyrrolidinone or cyclodextrin) and carrier and mg	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/10/11 13:24

# SCORE Search Results Details for Application 10758397 and Search Result us-10-758-397a-6.rapbm.

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GenCore version 5.1.9  
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OM protein - protein search, using sw model

Run on: September 23, 2006, 15:08:25 ; Search time 181 Seconds  
(without alignments)  
48.625 Million cell updates/sec

Title: US-10-758-397A-6  
Perfect score: 122  
Sequence: 1 GYYWSWIRQPPGKGEEWIG 19

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications\_AA\_Main:\*  
1: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*  
2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	122	100.0	19	4	US-10-468-924-6
2	122	100.0	19	4	<del>US-10-758-572-1</del>
3	122	100.0	19	5	US-10-758-397-6
4	122	100.0	19	5	US-10-758-397-18
5	122	100.0	20	4	US-10-468-924-18
6	119	97.5	19	4	US-10-468-924-15
7	117	95.9	19	4	US-10-468-924-13
8	116	95.1	19	4	US-10-468-924-14
9	116	95.1	252	3	US-09-880-748-1326
10	116	95.1	252	4	US-10-293-418-1326
11	116	95.1	252	6	US-11-054-515-1326
12	116	95.1	252	6	US-11-266-444-1326
13	114	93.4	19	4	US-10-468-924-12
14	114	93.4	19	4	US-10-468-924-16

102(c) 2004/01/27/08  
w/ 2nd Ref's  
APP &

## ALIGNMENTS

## RESULT 1

US-10-468-924-6

; Sequence 6, Application US/10468924  
 ; Publication No. US20040127408A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: YEDA Research and Development Co. Ltd  
 ; APPLICANT: MOZES, Edna  
 ; TITLE OF INVENTION: Synthetic Human Peptides and Pharmaceutical Compositions Comprising them  
 ; TITLE OF INVENTION: for the Treatment of Systemic Lupus Erythematosus  
 ; FILE REFERENCE: TEVA-003 PCT  
 ; CURRENT APPLICATION NUMBER: US/10/468,924  
 ; CURRENT FILING DATE: 2003-08-21  
 ; PRIOR APPLICATION NUMBER: IL 141647  
 ; PRIOR FILING DATE: 2001-02-26  
 ; NUMBER OF SEQ ID NOS: 30  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 6  
 ; LENGTH: 19  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-10-468-924-6

Query Match 100.0%; Score 122; DB 4; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 2.7e-08;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
 |||||  
 Db 1 GYYWSWIRQPPGKGEEWIG 19

## RESULT 2

US-10-758-572-1

; Sequence 1, Application US/10758572  
 ; Publication No. US20040180059A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cohen-Vered, Sharon  
 ; APPLICANT: Naftali, Esmira  
 ; APPLICANT: Weinstein, Vera  
 ; APPLICANT: Gilbert, Adrian  
 ; APPLICANT: Klinger, Ety  
 ; TITLE OF INVENTION: PARENTERAL FORMULATIONS OF A PEPTIDE FOR THE TREATMENT OF SYSTEMIC LUPUS  
 ; TITLE OF INVENTION: ERYTHEMATOSUS  
 ; FILE REFERENCE: 2609/68518-A  
 ; CURRENT APPLICATION NUMBER: US/10/758,572  
 ; CURRENT FILING DATE: 2004-01-14  
 ; NUMBER OF SEQ ID NOS: 1  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 1  
 ; LENGTH: 19  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: A synthetic peptide of 19 amino acids based on the  
 ; OTHER INFORMATION: complementarity-determining region 1 (CDR1) of the  
 ; OTHER INFORMATION: human anti-dsDNA mAb denoted 16/6 Id  
 US-10-758-572-1

Query Match 100.0%; Score 122; DB 4; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 2.7e-08;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
 |||||  
 Db 1 GYYWSWIRQPPGKGEEWIG 19

## RESULT 3

US-10-758-397-6

; Sequence 6, Application US/10758397  
 ; Publication No. US20050008634A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cohen-Vered, et al., Sharon

; TITLE OF INVENTION: PARENTERAL FORMULATIONS OF PEPTIDES FOR THE TREATMENT OF SYSTEMIC LUPUS  
; TITLE OF INVENTION: ERYTHEMATOSUS  
; FILE REFERENCE: 2609/68811-A  
; CURRENT APPLICATION NUMBER: US/10/758,397  
; CURRENT FILING DATE: 2004-01-14  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic peptide based on CDR of mouse autoantibody  
US-10-758-397-6

Query Match 100.0%; Score 122; DB 5; Length 19;  
Best Local Similarity 100.0%; Pred. No. 2.7e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
| | | | | | | | | | | | | | | | | | | | |  
Db 1 GYYWSWIRQPPGKGEEWIG 19

RESULT 4  
US-10-758-397-18  
; Sequence 18, Application US/10758397  
; Publication No. US20050008634A1  
; GENERAL INFORMATION:  
; APPLICANT: Cohen-Vered, et al., Sharon  
; TITLE OF INVENTION: PARENTERAL FORMULATIONS OF PEPTIDES FOR THE TREATMENT OF SYSTEMIC LUPUS  
; TITLE OF INVENTION: ERYTHEMATOSUS  
; FILE REFERENCE: 2609/68811-A  
; CURRENT APPLICATION NUMBER: US/10/758,397  
; CURRENT FILING DATE: 2004-01-14  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 18  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic peptide based on the complementarity-determining region  
; OTHER INFORMATION: 1 of human anti-dsDNA mAb denoted 16/6 Id  
US-10-758-397-18

Query Match 100.0%; Score 122; DB 5; Length 19;  
Best Local Similarity 100.0%; Pred. No. 2.7e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
| | | | | | | | | | | | | | | | | | | | |  
Db 1 GYYWSWIRQPPGKGEEWIG 19

RESULT 5  
US-10-468-924-18  
; Sequence 18, Application US/10468924  
; Publication No. US20040127408A1  
; GENERAL INFORMATION:  
; APPLICANT: YEDA Research and Development Co. Ltd  
; APPLICANT: MOZES, Edna  
; TITLE OF INVENTION: Synthetic Human Peptides and Pharmaceutical Compositions Comprising them  
; TITLE OF INVENTION: for the Treatment of Systemic Lupus Erythematosus  
; FILE REFERENCE: TEVA-003 PCT  
; CURRENT APPLICATION NUMBER: US/10/468,924  
; CURRENT FILING DATE: 2003-08-21  
; PRIOR APPLICATION NUMBER: IL 141647  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 18  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:

; OTHER INFORMATION: A peptide of SEQ ID NO: 11 wherein Xaa(1) is Thr Gly, Xaa(8) is A  
; OTHER INFORMATION: rg, Xaa(10) is Pro, Xaa(12) is Gly, Xaa(13) is Lys, and Xaa(15) is  
; OTHER INFORMATION: s Glu.  
US-10-468-924-18

Query Match 100.0%; Score 122; DB 4; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.8e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 2. GYYWSWIRQPPGKGEEWIG 20

RESULT 6  
US-10-468-924-15  
; Sequence 15, Application US/10468924  
; Publication No. US20040127408A1  
; GENERAL INFORMATION:  
; APPLICANT: YEDA Research and Development Co. Ltd  
; APPLICANT: MOZES, Edna  
; TITLE OF INVENTION: Synthetic Human Peptides and Pharmaceutical Compositions Comprising them  
; TITLE OF INVENTION: for the Treatment of Systemic Lupus Erythematosus  
; FILE REFERENCE: TEVA-003 PCT  
; CURRENT APPLICATION NUMBER: US/10/468,924  
; CURRENT FILING DATE: 2003-08-21  
; PRIOR APPLICATION NUMBER: IL 141647  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 15  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: A peptide of SEQ ID NO: 11 wherein Xaa(1) is Gly, Xaa(8) is Lys,  
; OTHER INFORMATION: Xaa(10) is Pro, Xaa(12) is Gly, Xaa(13) is Lys, and Xaa(15) is Gl  
; OTHER INFORMATION: u.  
US-10-468-924-15

Query Match 97.5%; Score 119; DB 4; Length 19;  
Best Local Similarity 94.7%; Pred. No. 6.3e-08;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 GYYWSWIKQPPGKGEEWIG 19

RESULT 7  
US-10-468-924-13  
; Sequence 13, Application US/10468924  
; Publication No. US20040127408A1  
; GENERAL INFORMATION:  
; APPLICANT: YEDA Research and Development Co. Ltd  
; APPLICANT: MOZES, Edna  
; TITLE OF INVENTION: Synthetic Human Peptides and Pharmaceutical Compositions Comprising them  
; TITLE OF INVENTION: for the Treatment of Systemic Lupus Erythematosus  
; FILE REFERENCE: TEVA-003 PCT  
; CURRENT APPLICATION NUMBER: US/10/468,924  
; CURRENT FILING DATE: 2003-08-21  
; PRIOR APPLICATION NUMBER: IL 141647  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 13  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: A peptide of SEQ ID NO: 11 wherein Xaa(1) is Gly, Xaa(8) is Arg,  
; OTHER INFORMATION: Xaa(10) is Pro, Xaa(12) is Gly, Xaa(13) is Lys, and Xaa(15) is Se  
; OTHER INFORMATION: r.  
US-10-468-924-13

Query Match 95.9%; Score 117; DB 4; Length 19;

SCORE Search Results Details for Application 10758397 and Search Result us-10-758-397a-6.rag.

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Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: September 23, 2006, 14:46:16 ; Search time 196 Seconds  
(without alignments)  
44.322 Million cell updates/sec

Title: US-10-758-397A-6  
Perfect score: 122  
Sequence: 1 GYYWSWIRQPPGKGEEWIG 19

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2589679 seqs, 457216429 residues

Total number of hits satisfying chosen parameters: 2589679

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : A\_Geneseq\_8:\*  
1: geneseqp1980s:\*  
2: geneseqp1990s:\*  
3: geneseqp2000s:\*  
4: geneseqp2001s:\*  
5: geneseqp2002s:\*  
6: geneseqp2003as:\*  
7: geneseqp2003bs:\*  
8: geneseqp2004s:\*  
9: geneseqp2005s:\*  
10: geneseqp2006s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
% Query					
Result No.	Score	Match	Length	DB ID	Description
1	122	100.0	19	5	AAE27949
2	122	100.0	19	8	ADQ91214
3	122	100.0	19	8	ADR14722
4	122	100.0	20	5	AAE27961
5	119	97.5	19	5	AAE27958
6	117	95.9	19	5	AAE27956
7	116	95.1	252	5	ABP45315
8	116	95.1	252	7	ADG96142
9	116	95.1	252	9	AED78195
10	115	94.3	119	2	AAR54799



999	97	79.5	252	5	ABP45212	Abp45212 Human Bly
1000	97	79.5	252	7	ADG96039	Adg96039 Single ch

## ALIGNMENTS

## RESULT 1

AAE27949

ID AAE27949 standard; peptide; 19 AA.

XX

AC AAE27949;

XX

DT 27-DEC-2002 (first entry)

XX

DE Human 16/6Id mAb VH chain CDR1 peptide, hCDR1.

XX

KW Complementarity-determining region; CDR; variable heavy chain; VH; VL;  
KW variable light chain; SLE-associated response; immunosuppressive; SLE;  
KW systemic lupus erythematosus; dermatological; therapy; antiinflammatory;  
KW human.

XX

OS Homo sapiens.

XX

PN WO200267848-A2.

XX

PD 06-SEP-2002.

XX

PF 26-FEB-2002; 2002WO-IL000148.

XX

PR 26-FEB-2001; 2001IL-00141647.

XX

PA (YEDA ) YEDA RES &amp; DEV CO LTD.

XX

PI Mozes E;

XX

DR WPI; 2002-698624/75.

XX

PT New synthetic peptide useful for treating and ameliorating the clinical  
PT manifestations of systemic lupus erythematosus (SLE) by modulating SLE-  
PT associated responses.

XX

PS Claim 9; Page 6; 120pp; English.

XX

CC The invention relates to a synthetic peptide selected from a peptide of  
CC 12-30 amino acid residues with a sequence of, or found within, a  
CC complementarity-determining region (CDR) on the variable heavy (VH) or  
CC light (VL) chain of human monoclonal anti-DNA 16/6Id antibody (hCDR). The  
CC composition comprising the peptide is useful for the treatment of  
CC systemic lupus erythematosus (SLE) and amelioration of the clinical  
CC manifestations of the disease, particularly by modulating SLE-associated  
CC responses. The present sequence is human 16/6Id mAb VH chain CDR peptide

XX

SQ Sequence 19 AA;

Query Match 100.0%; Score 122; DB 5; Length 19;  
Best Local Similarity 100.0%; Pred. No. 9.3e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEWIG 19

|||||

Db 1 GYYWSWIRQPPGKGEWIG 19

## RESULT 2

ADQ91214

ID ADQ91214 standard; peptide; 19 AA.

XX

AC ADQ91214;

XX

DT 21-OCT-2004 (first entry)

XX

DE Human complementarity determining region 1 peptide to treat SLE SeqID 1.

XX

KW acetate salt; human; complementarity determining region 1; CDR1;

KW aqueous carrier; substituted beta-cyclodextrin;

KW hepta-(sulfoethyl ether)-beta-cyclodextrin; antiinflammatory;  
 KW dermatological; immunosuppressive; systemic lupus erythematosus; SLE;  
 KW interferon-gamma inhibitor;  
 KW transforming growth factor-beta secretion inhibitor.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004064788-A2.  
 XX  
 PD 05-AUG-2004.  
 XX  
 PF 14-JAN-2004; 2004WO-US000955.  
 XX  
 PR 14-JAN-2003; 2003US-0439950P.  
 XX  
 PA (TEVA-) TEVA PHARM IND LTD.  
 PA (TEVA-) TEVA PHARM USA INC.  
 XX  
 PI Cohen-Vered S, Naftali E, Weinstein V, Gilbert A, Klinger E;  
 XX  
 DR WPI; 2004-580637/56.  
 XX  
 PT Pharmaceutical composition useful for treating systemic lupus  
 PT erythematosus, comprises carrier, composition of salt of human  
 PT complementarity determining region 1 peptide, and substituted beta-  
 PT cyclodextrin to dissolve peptide in carrier.  
 XX  
 PS Claim 1; SEQ ID NO 1; 76pp; English.  
 XX  
 CC This invention relates to a novel pharmaceutical composition comprising  
 CC from 0.1-20 mg/ml of an acetate salt of a human complementarity  
 CC determining region 1 (CDR1) peptide. Specifically, it refers to  
 CC parenteral formulations of this peptide, such that the composition  
 CC provides an aqueous carrier and a substituted beta-cyclodextrin present  
 CC in an amount effective to dissolve the peptide in the aqueous carrier,  
 CC wherein it shows a pH of between 4 and 9. The present invention further  
 CC describes a peptide formulation comprising the peptide and 70-170mg/ml of  
 CC hepta-(sulfoethyl ether)-beta-cyclodextrin dissolved together in the  
 CC aqueous carrier such that the resulting pH solution is between 6.5 and  
 CC 8.5. These compositions have been shown to exhibit antiinflammatory,  
 CC dermatological and immunosuppressive activities and accordingly can be  
 CC used to alleviate the symptoms of systemic lupus erythematosus (SLE) in  
 CC human subjects. As such, they also act as inhibitors of interferon-gamma  
 CC and transforming growth factor-beta secretion. This peptide sequence is  
 CC the human CDR1 peptide of the invention.  
 XX  
 SQ Sequence 19 AA;

Query Match 100.0%; Score 122; DB 8; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-08;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
 |||||  
 Db 1 GYYWSWIRQPPGKGEEWIG 19

RESULT 3  
 ADR14722  
 ID ADR14722 standard; peptide; 19 AA.  
 XX  
 AC ADR14722;  
 XX  
 DT 21-OCT-2004 (first entry)  
 XX  
 DE Synthetic peptide based on a human CDR1.  
 XX  
 KW complementarity determining region; CDR; heavy chain; light chain;  
 KW monoclonal anti-DNA 16/6 idiotype antibody; 16/6 Id antibody;  
 KW anti-DNA antibody; induces systemic lupus erythematosus; SLE.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO2004064787-A2.  
 XX


PD 05-AUG-2004.  
XX  
PF 14-JAN-2004; 2004WO-US000948.  
XX  
PR 14-JAN-2003; 2003US-0439918P.  
XX  
PA (TEVA-) TEVA PHARM IND LTD.  
PA (TEVA-) TEVA PHARM USA INC.  
XX  
PI Cohen-Vered S, Naftali E, Weinstein V, Gilbert A, Klinger E;  
XX  
DR WPI; 2004-580636/56.  
XX  
PT Pharmaceutical composition for treating systemic lupus erythematosus  
PT (SLE), has salt of peptide corresponding to complementarity-determining  
PT region of heavy/light chain of anti-DNA 16/6 Id antibody that induces  
PT immune response to SLE.  
XX  
PS Claim 3; SEQ ID NO 6; 132pp; English.  
XX  
CC The specification describes a pharmaceutical composition, comprising a  
CC salt of a peptide with 12-30 consecutive amino acids having a sequence  
CC corresponding to an amino acid sequence found within complementarity-  
CC determining region (CDR) of the heavy or light chain of the human  
CC monoclonal anti-DNA 16/6 idiotype (16/6 Id) antibody, or a heavy or light  
CC chain of a pathogenic anti-DNA monoclonal antibody that induces systemic  
CC lupus erythematosus (SLE)-like disease response in mice. The composition  
CC is useful for treating SLE and for alleviating symptoms of SLE in a human  
CC subject. The present sequence represents a peptide based on a human CDR1,  
CC and designated compound 1. The present peptide is used in pharmaceutical  
CC compositions of the invention.  
XX  
SQ Sequence 19 AA;

Query Match 100.0%; Score 122; DB 8; Length 19;  
Best Local Similarity 100.0%; Pred. No. 9.3e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEWIG 19  
| | | | | | | | | | | | | | | | | | | | |  
Db 1 GYYWSWIRQPPGKGEWIG 19

RESULT 4  
AAE27961

ID AAE27961 standard; peptide; 20 AA.  
XX  
AC AAE27961;  
XX  
DT 27-DEC-2002 (first entry)  
XX  
DE Human 16/6Id mAb VH chain CDR1 peptide mutant #1.  
XX  
KW Complementarity-determining region; CDR; variable heavy chain; VH; VL;  
KW variable light chain; SLE-associated response; immunosuppressive; SLE;  
KW systemic lupus erythematosus; dermatological; therapy; antiinflammatory;  
KW human.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN WO200267848-A2.  
XX  
PD 06-SEP-2002.  
XX  
PF 26-FEB-2002; 2002WO-IL000148.  
XX  
PR 26-FEB-2001; 2001IL-00141647.  
XX  
PA (YEDA) YEDA RES & DEV CO LTD.  
XX  
PI Mozes E;  
XX  
DR WPI; 2002-698624/75.  
XX  
PT New synthetic peptide useful for treating and ameliorating the clinical

  
Same as 1

PT manifestations of systemic lupus erythematosus (SLE) by modulating SLE-  
associated responses.  
XX  
PS Claim 8; Page 15; 120pp; English.  
XX  
CC The invention relates to a synthetic peptide selected from a peptide of  
CC 12-30 amino acid residues with a sequence of, or found within, a  
CC complementarity-determining region (CDR) on the variable heavy (VH) or  
CC light (VL) chain of human monoclonal anti-DNA 16/6Id antibody (hCDR). The  
CC composition comprising the peptide is useful for the treatment of  
CC systemic lupus erythematosus (SLE) and amelioration of the clinical  
CC manifestations of the disease, particularly by modulating SLE-associated  
CC responses. The present sequence is a mutant created by addition of Thr  
CC residue to the N-terminus of human 16/6Id mAb VH chain CDR peptide  
XX  
SQ Sequence 20 AA;

Query Match 100.0%; Score 122; DB 5; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.8e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GYYWSWIRQPPGKGEEWIG 19  
| | | | | | | | | | | | | | | | | | | | | |  
Db 2 GYYWSWIRQPPGKGEEWIG 20

RESULT 5  
AAE27958

ID AAE27958 standard; peptide; 19 AA.  
XX  
AC AAE27958;  
XX  
DT 27-DEC-2002 (first entry)  
XX  
DE Human 16/6Id mAb VH chain CDR1 peptide mutant, R8K.  
XX  
KW Complementarity-determining region; CDR; variable heavy chain; VH; VL;  
KW variable light chain; SLE-associated response; immunosuppressive; SLE;  
KW systemic lupus erythematosus; dermatological; therapy; antiinflammatory;  
KW human.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT Misc-difference 8  
FT /note= "Wild-type Arg is replaced with Lys"  
XX  
PN WO200267848-A2.  
XX  
PD 06-SEP-2002.  
XX  
PF 26-FEB-2002; 2002WO-IL000148.  
XX  
PR 26-FEB-2001; 2001IL-00141647.  
XX  
PA (YEDA ) YEDA RES & DEV CO LTD.  
XX  
PI Mozes E;  
XX  
DR WPI; 2002-698624/75.  
XX  
PT New synthetic peptide useful for treating and ameliorating the clinical  
PT manifestations of systemic lupus erythematosus (SLE) by modulating SLE-  
PT associated responses.  
XX  
PS Claim 8; Page 15; 120pp; English.  
XX  
CC The invention relates to a synthetic peptide selected from a peptide of  
CC 12-30 amino acid residues with a sequence of, or found within, a  
CC complementarity-determining region (CDR) on the variable heavy (VH) or  
CC light (VL) chain of human monoclonal anti-DNA 16/6Id antibody (hCDR). The  
CC composition comprising the peptide is useful for the treatment of  
CC systemic lupus erythematosus (SLE) and amelioration of the clinical  
CC manifestations of the disease, particularly by modulating SLE-associated  
CC responses. The present sequence is human 16/6Id mAb VH chain CDR mutant